INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/38021

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : C12Q 1/04; C12M 1/34			
US CL : 435/7.2, 287.2			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (obscification custom fellows I)			
Minimum documentation searched (classification system followed by classification symbols) U.S.: 435/3, 7.2-7.37, 32, 33, 34, 39, 40, 287.2, 287.9; 436/525, 149; 422/68.1, 82.01; 73/54.24, 61.75			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *			
X	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.
	WO 98/40739 A1 (WILLNER et al.) 17 September	אצעז (17.09.1998), see entire document	56-58, 74-82
Y			1-55, 67-73
<u>x</u>	US 4,789,804 A (KARUBE et al.) 06 December 1988 (06.12.1988), see entire document.		56-58, 74-82
Y		_	1-55, 67-73
Y	US 5,135,852 A (EBERSOLE et al.) 04 August 1992 (04.08.1992), see entire document.		1-58, 67-82
Α	US 6,040,191 A (GROW) 21 March 2000 (21.03.2000), see entire document.		1-82
Y US 5,705,399 A (LARUE) 06 January 1998 (06.01.		.1998), see entire document.	59-66
Further	documents are listed in the continuation of Box C.	See patent family annex.	
* Special categories of cited documents: "T		"T" later document published after the inte	rnational filing date or priority
"A" document defining the general state of the art which is not considered to be of particular relevance		date and not in conflict with the application but cited to understand the principle or theory underlying the invention	
	plication or patent published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is	
O document referring to an oral disclosure, use, exhibition or other means		combined with one or more other such being obvious to a person skilled in the	documents, such combination
"P" document published prior to the international filing date but later than the priority date claimed		"&" document member of the same patent	family
Date of the actual completion of the international search		Date of mailing of the international search report 1 6 JUN 2005	
25 May 2005 (25.05.2005)			
Name and mailing address of the ISA/US Mail Stop PCT, Atm: ISA/US		Authorized officer	
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om FC1/13A/210 (second sheet) (January 2004)			